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STANDARD DHIA

OWNER SAMPLER

WEIGH-A-DAY-A-MONTH

AGRICULTURAL RESEARCH SERVICE, U. S. DEPARTMENT OF AGRICULTURE

Dairy-Herd-Improvement Letter

ARS-44-67  
(Vol. 36, No. 1)

January 1960

### 927, 998 LACTATION RECORDS REPORTED DURING 1959

During 1959, 927, 998 lactation records were reported to the Dairy Cattle Research Branch for use in proving DHIA sires. DHIA supervisors reported 879, 743 of these records; 48, 255 were Herd Test records reported by the various Breed Associations. The number of Herd Test records reported by the various associations is as follows:

	Herd Test records reported (number)
American Dairy Cattle Club	--- 385
Ayrshire Breeders' Association	--- 6, 634
Brown Swiss Cattle Breeders Association	--- 3, 850
American Guernsey Cattle Club	--- 24, 039
American Jersey Cattle Club	--- 13, 347

The number of lactation records reported each year, since 1946, is shown below:

<u>Year</u>	<u>Lactation records reported (number)</u>	<u>Year</u>	<u>Lactation records reported (number)</u>
1946	183, 884	1953	501, 582
1947	250, 811	1954	667, 074
1948	285, 083	1955	636, 293
1949	391, 067	1956	658, 086
1950	471, 721	1957	565, 360
1951	540, 953	1958	786, 496
1952	485, 949	1959	927, 998

The 927, 998 records reported during 1959 represent approximately 51 percent of the 1, 607, 538 cows on standard test at the beginning of the year.

PRODUCTION RECORDS REPORTED TO THE DAIRY HERD IMPROVEMENT SECTION BY STATE EXTENSION SERVICES,  
FOR THE PERMANENT FILES DURING 1958 AND 1959

1959												1958	
State	Cows on test		Production	Herd Test Records Reported by --						Total	Production		
	in all	records	records	American:Ayrshire:Brown Swiss:American:American:						records	records		
	association	reported	reported	Dairy	Breeders:	Cattle	Guernsey:	Jersey	reported	reported			
	herds on	1/ 2/	Cattle	Associa-	Breeders'	Cattle	Cattle		3/	2/			
	January 1		Club	tion	Association:	Club	Club						
	Number	Number	Number	Number	Number	Number	Number	Number	Percent	Number	Percent		
Maine-----	19,270	13,926	-	166	-	197	149	14,438	74.9	11,326	63.3		
N. H-----	10,909	6,358	-	121	-	239	89	6,807	62.4	7,184	68.7		
Vt-----	42,608	25,578	-	440	39	277	525	26,859	60.3	20,450	51.3		
Mass-----	21,109	16,973	26	445	159	598	429	18,630	88.3	15,281	75.3		
R. I-----	2,795	1,106	-	110	-	125	114	1,455	52.1	1,291	45.1		
Conn-----	21,929	14,336	-	297	288	1,093	327	16,341	74.5	15,476	72.3		
N. Y-----	142,424	176,012	59	1,047	360	1,733	767	179,978	126.4	179,407	128.0		
Pa-----	121,174	149,150	-	832	88	1,400	213	151,683	125.2	84,676	64.6		
N. J-----	25,636	12,117	-	48	110	868	165	13,308	51.9	11,225	41.1		
Md-----	40,743	35,249	268	382	66	963	225	37,153	91.2	24,665	62.2		
Del-----	3,419	3,369	-	70	-	153	-	3,592	105.1	2,303	65.4		
Va-----	55,590	42,382	-	54	33	1,044	244	43,757	78.7	35,146	67.8		
W. Va-----	7,843	5,618	-	48	17	100	57	5,840	74.5	3,530	46.0		
Ky-----	12,960	3,830	-	-	63	185	329	4,407	34.0	5,215	41.3		
N. C-----	25,892	15,262	-	95	-	1,345	320	17,022	65.7	20,713	86.5		
S. C-----	8,434	2,699	-	78	39	740	244	3,800	45.1	2,938	33.8		
Ga-----	15,188	4,219	-	19	6	184	265	4,693	30.9	3,710	23.4		
Fla-----	20,919	4,070	-	87	-	1,053	384	5,594	26.7	8,470	47.0		
Ala-----	15,605	5,938	-	-	-	85	307	6,330	40.6	4,800	31.1		
Miss-----	6,231	1,258	-	6	4	421	222	1,911	30.7	1,689	30.1		
Tenn-----	12,974	2,140	-	8	-	238	681	3,067	23.6	2,003	16.4		
La-----	3,416	550	-	42	-	138	135	865	25.3	2,055	48.0		
Ark-----	1,063	157	-	-	4	76	172	409	38.5	535	124.4		
Ohio-----	55,885	23,543	-	587	522	2,333	1,633	28,618	51.2	33,111	65.8		
Ind-----	35,083	11,212	32	120	121	1,072	401	12,958	36.9	12,834	36.8		
Ill-----	55,829	34,044	-	179	346	828	435	35,832	64.2	33,876	62.4		
Mich-----	54,897	56,242	-	108	212	976	420	57,958	105.6	30,505	55.0		
Wis-----	94,702	37,721	-	71	407	445	259	38,903	41.1	38,825	42.1		
Minn-----	97,592	56,041	-	90	105	381	210	56,827	58.2	56,158	62.2		
Iowa-----	49,284	32,319	-	107	319	544	331	33,620	68.2	28,673	62.4		
Mo-----	21,442	8,120	-	-	109	241	227	8,697	40.6	8,177	38.1		
N. Dak-----	4,329	2,576	-	-	12	18	-	2,606	60.2	2,823	73.2		
S. Dak-----	5,666	1,005	-	11	62	45	-	1,123	19.8	868	16.4		
Nebr-----	11,720	1,868	-	6	21	201	36	2,132	18.2	3,307	29.1		
Kans-----	24,524	11,746	-	438	34	279	102	12,599	51.4	12,949	52.7		
Okla-----	6,897	1,015	-	129	18	130	216	1,508	21.9	2,485	40.3		
Tex-----	16,855	4,939	-	17	66	207	773	6,002	35.6	6,362	37.0		
Mont-----	5,302	1,039	-	-	29	49	24	1,141	21.5	1,257	24.4		
Idaho-----	22,513	6,776	-	12	11	290	249	7,338	32.6	6,645	32.5		
Wyo-----	1,625	474	-	-	-	1	-	475	29.2	178	12.6		
Nev-----	1,963	11	-	-	-	177	68	256	13.0	250	17.1		
Utah-----	14,166	11,099	-	-	-	155	12	11,266	79.5	3,579	25.0		
Colo-----	13,576	2,053	-	43	60	72	29	2,257	16.6	1,404	12.4		
N. Mex-----	3,053	705	-	-	5	181	117	1,008	33.0	723	26.3		
Ariz-----	23,503	1,992	-	57	-	95	22	2,166	9.2	1,435	6.2		
Wash-----	46,064	14,927	-	58	6	861	201	16,133	35.0	17,243	41.1		
Oreg-----	26,411	13,972	-	6	73	601	849	15,501	58.7	14,608	59.7		
Calif-----	271,566	1,829	-	200	36	602	290	2,957	1.1	3,872	1.5		
P. R-----	4,744	87	-	-	-	-	-	87	1.8	60	1.1		
Hawaii-----	216	91	-	-	-	-	-	91	42.1	161	73.9		
Alaska-----	-	-	-	-	-	-	-	-	-	-	-		
U. S-----	1,607,538	879,743	385	6,634	3,850	24,039	13,347	927,998	57.7	786,496	50.8		

1/ Includes cows enrolled since January 1, 1959.

2/ Production records reported on DHIA-718, DHIA-1096 and DHIA-1095.

3/ Records returned to States because of inconsistent or incomplete data.

NUMBER OF RECORDS PROCESSED IN DHIA COMPUTING CENTERS\*  
(as reported by State Extension Dairymen, January 1, 1960)

State	DHIA Records		Owner-Sampler	
	No. Herds	No. Cows	No. Herds	No. Cows
Ala	106	7,722	-	-
Ariz	56	5,398	2	242
Ark	27	933	2	83
Calif	1	162	-	-
Colo	131	6,837	21	544
Conn	211	9,415	34	927
Del	108	3,640	26	547
Fla	3	395	-	-
Ga	22	2,000	-	-
Idaho	6	467	7	88
Ill	628	19,268	157	3,337
Iowa	621	19,826	129	2,762
Kans	62	2,296	3	60
Ky	10	360	-	-
Me	139	5,007	32	895
Md	335	14,585	58	1,996
Mass	553	22,100	102	2,206
Mich	1,949	60,851	976	23,360
Minn	337	10,467	78	1,686
Miss	21	1,052	-	-
Mo	41	1,305	-	-
Mont	33	1,656	5	176
Nebr	104	4,300	67	1,657
N. Hamp	88	3,244	6	115
N. Jer	96	5,280	23	1,265
N. Mex	33	2,794	2	50
N. Y	1,687	65,000	1,055	29,000
N. C	339	15,422	6	233
N. Dak	98	2,752	48	877
Ohio	141	4,107	13	379
Ore	79	4,080	6	92
Pa	4,456	139,602	959	23,081
R. I	21	777	-	-
S. C	77	5,645	-	-
S. Dak	40	1,249	8	214
Tex	1	39	-	-
Utah	488	16,484	26	374
Vt	265	9,651	81	2,529
Va	148	7,712	1	25
Wash	197	8,961	17	319
W. Va	55	1,709	-	-
Wis	1,139	40,093	1,089	28,422
Wyo	43	1,419	44	2,018
Total	14,995	536,062	5,083	129,559

\*WADAM Records: Louisiana, 136 herds, 6,191 cows; Massachusetts, 1 herd, 70 cows; Michigan, 88 herds, 2,131 cows; Nebraska, 10 herds, 200 cows; Utah, 34 herds, 680 cows. Total - 269 herds and 9,272 cows.



NUMBER OF STATE DHIA'S  
(as reported by State Extension Dairymen, Jan. 1, 1960)

Eighteen (18) States have State DHIA organizations.  
They are:

Alabama	Missouri	Rhode Island
Connecticut	New Hampshire	Utah
Delaware	New York	Vermont
Maryland	Ohio	Virginia
Massachusetts	Oregon	Washington
Michigan	Pennsylvania	Wisconsin

Eight (8) States contemplate organizing State DHIA'S.  
They are:

Arkansas	New Jersey
Colorado	North Carolina
Kentucky	Oklahoma
Maine	Texas

PROGRESS IN AUTOMATING DHIA SIRE PROVING PROCEDURES

In the October 1959 DHI Letter it was announced, " Proved Sire Records Go Electronic." The Branch's manual punch card system of compiling proved sire records is being converted to electronic data processing magnetic tape 705-III procedures.

This is a report on the conversion operations. The master file of more than 6,000,000 lactation records have been placed on tape (about 125 miles of it) and the actual machine operation of converting procedures and setting the system up for tape operation is scheduled to begin about February 15, 1960. The time required to complete the conversion operations depends on the amount of time available on the 705-III for processing DHIA records. It is expected, however, that the first DHIA proved sire records will be produced on an automated basis in April 1960.